

# Are you interested in writing your master thesis in a company combining academia and industry?

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## The project

Liver fibrosis is characterized by excessive accumulation of extracellular matrix (ECM) proteins and occurs in most types of liver diseases. Liver biopsies are the gold standard for assessment of liver fibrosis, and consecutive histological evaluation can detect changes in the magnitude of fibrosis. However, biopsies are invasive and associated with patient discomfort and high sampling error. Thus there is a need for reliable, organ specific and non-invasive biochemical markers of fibrosis to hopefully replace liver biopsy as a diagnostic and prognostic tool.

This project will focus on identification and development of novel biochemical markers aimed at measuring a fragment of a protein generated through a pathologically relevant mechanism of liver fibrosis. The novel markers as well as existing markers will be characterized in clinical settings in order to elucidate their potential as fibrosis specific markers, and ultimately be incorporated in a unique algorithm to guide personal health care for patients with liver diseases.

## Methods – Protein technology

During the project you will learn several techniques such as ELISA, histology, immunohistochemistry, western blot, purification techniques, and cell culturing, as well as handling and analysis of human samples. Statistical knowledge will be beneficial however it is not a must.

## Company profile

Nordic Bioscience is a biotech company with a strong focus on developing novel biochemical markers for diagnosis and prognosis of major human diseases. Nordic Bioscience measures limited samples with a carefully selected marker panel of tissue turnover to identify patients with disease progression or who responds best to treatment compared to traditional technologies.

With more than 200 publications Nordic Bioscience proves its track record in biomarker science. As master student you might get the opportunity for co-authorship on publications related to the thesis project. English is used at all meetings.

## Contact

If you are interested in a master thesis project or would like to hear more about writing your thesis at Nordic Bioscience, please contact Mette Juul Nielsen, Nordic Bioscience A/S, Herlev Hovedgade 207, DK-2730 Herlev, Phone 4452 5203, E-mail [mju@nordicbioscience.com](mailto:mju@nordicbioscience.com)